



PTO/SB/08A (10-01)
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/757,267
		Filing Date	January 14, 2004
		First Named Inventor	Anil Kumar et al.
		Art Unit	1712 2073
		Examiner Name	Jessica Stultz
Sheet	1	of	5
		Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JS		2,319,826	05-24-1943	Land-Pellet	428/324
JS		2,334,446	11-16-1943	Serrell	351/49
JS		2,475,921	07-12-1949	Smith	359/489
JS		3,276,316	10-04-1966	Makas	359/352
JS		3,653,863	04-04-1972	Araujo et al.	65/30.11
JS		4,039,254	08-02-1977	Harsch	349/14
JS		4,043,637	08-23-1977	Hovey	359/241
JS		4,190,330	02-26-1980	Berreman	349/200
JS		4,549,894	10-29-1985	Araujo et al.	65/30.11
JS		4,637,896	01-20-1987	Shannon	252/299.7
JS		4,728,173	03-01-1988	Toth	349/14
JS		4,756,605	07-12-1988	Okada et al.	349/13
JS		4,810,433	03-07-1989	Takayanagi et al.	264/435
JS		4,838,673	06-13-1989	Richards et al.	351/44
JS		4,863,763	09-05-1989	Takeda et al.	427/355
JS		4,974,941	12-04-1990	Gibbons et al.	349/24
JS		6,204,850 5024,850	06-18-1991	Broer et al.	428/1.31
JS		5,067,795	11-26-1991	Senatore	349/14
JS		5,073,294	12-17-1991	Shannon et al.	252/299.01
JS		5,155,607	10-13-1992	Inoue et al.	349/89
JS		5,180,470	01-19-1993	Smith et al.	117/58
JS		5,189,448	02-23-1993	Yaguchi	351/162
JS		5,202,053	04-13-1993	Shannon	252/299.01
JS		5,247,377	09-21-1993	Omeis et al.	349/126
JS		5,464,669	11-07-1995	Kang et al.	427/558
JS		5,608,567	03-04-1997	Grupp	359/275
JS		5,644,416	07-01-1997	Morikawa et al.	349/86
JS		5,943,104	08-24-1999	Moddel et al.	344/13

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				First Named Inventor	Anil Kumar et al.
				Art Unit	1712 2073
				Examiner Name	SHUTZ
Sheet	2	of	5	Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					
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		Number - Kind Code ² (if known)			
JS	1	6,160,597	12-12-2000	Schadt et al.	349/98
JS	1	6,284,418 B1	09-04-2001	Trantolo	430/20
JS	1	6,334,681 B1	01-01-2002	Perrott et al.	351/159
JS	1	6,369,869 B2	04-09-2002	Schadt et al.	349/124
JS	1	6,717,644 B2	04-06-2004	Schadt et al.	349/124
JS	1	US2002/0090516A1	07-11-2002	Loshak et al.	470/412
JS	1	US2002/0180916A1	12-05-2002	Schadt et al.	349/117

Jess A 7/5/05

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		Filing Date	January 14, 2004		
		First Named Inventor	Anil Kumar et al.		
		Art Unit	17122073		
		Examiner Name	Stultz		
Sheet	3		5	Attorney Docket Number	1905A1

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)					
J		EP 0 397 263 B1		12.21.1994	N.V. Philips' Gloeilampenfabrieken		
J		EP 0 331 233 B1		04.23.1997	Philips Electronics N.V.		
J		EP 0 488 164 A2		26.11.1991	Hitachi, Ltd.		
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J		EP 0 772 069 A1		23.10.1996	Rolic AG		
J		EP 1 162 482 A2		12.12.2001	Mitsubishi Gas Chemical Company, Inc.		
J		EP 1 394 595 A1		03.03.2004	Mitsubishi Gas Chemical Company, Inc.		
J		JP 59 135428 A (Abstract)		08.03.1984	Toshiba Corp.		
J		JP 03 200218 A (Abstract)		09.02.1991	Toyota Central Research & Development Lab Inc.		
J		JP 03 200118 A (Abstract)		09.02.1991	Toyota Central Research & Development Lab Inc.		
J		GB 2 169 417 A		07.09.1986	Olympus Optical Co. Ltd. Japan		
J		GB 583,842		01.01.1947	International Polaroid Corporation		
J		WO 97/22894		26.06.1997	Sola International Holdings Ltd.		
J		WO 98/19207 (Abstract)		05.07.1998	Carl-Zeiss-Stiftung		
J		WO 00/19252		04.06.2000	Intel Corporation		
J		WO 03/032066 A1		17.04.2003	E-Vision LLC		

Examiner Signature	Jordan	Date Considered	7/5/05
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		Application Number	10/757,267
		Filing Date	January 14, 2004
		First Named Inventor	Anil Kumar et al.
		Art Unit	1742 2073
		Examiner Name	SHH2
Sheet	4		5
		Attorney Docket Number	1905A1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
SH		KVASNIKOV, E.D., KOZENKOV, V.M., AND BARACHEVSKII, V.A., "Birefringence in Polyvinylcinnamate Films Induced By Polarized Light," <u>Doklady Akademii nauk SSSR</u> , Vol. 237, No. 3, USSR pp. 633-636 (1977).	X
SH		KOZENKOV, V.M., CHIGRINOV, V.G., AND KWOK, H.S. "Photoanisotropic Effects in Poly (Vinyl-Cinnamate) Derivatives and Their Applications," <u>Mol. Cryst. Liq. Cryst.</u> , Vol. 409, pp. 251-267 (2004).	
SH		HIKMET, R.A.M and de WITZ, C., "Gel Layer for Inducting Adjustable Pretilt Angles in Liquid Crystal Systems," <u>J. App. Phys.</u> Vol. 70, No. 3, pp. 1265-1266 (August 1991).	
SH		SCHADT, Martin et al. "Surface-Induced Parallel Alignment of Liquid Crystals by Linearly Polymerized Photopolymers," <u>Jpn. J. Appl. Phys.</u> Vol. 31, No. 7, pp. 2155- 2164 (July 1992).	X
SH		SCHADT, Martin "Optics and Applications of Photo-Aligned Liquid Crystalline Surfaces," <u>Nonlinear Optics</u> , Vol. 25, pp.1-12 (2000).	
SH		SCHADT, Martin "Liquid Crystal Displays and Novel Optical Thin Films Enabled by Photo-Alignment," <u>Mol. Cryst. Liq. Cryst.</u> Vol. 364, pp. 151-169 (2001).	
SH		DYADYUSHA, A.G. et al. "Light-Induced Planar Orientation of a Nematic Liquid Crystal on an Anisotropic Surface without Microrelief," <u>Ukr. Fiz. Zhurn.</u> (Ukraine), Vol. 35, No. 5, pp. 1059-1062.	X

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		Application Number	10/757,267	
		Filing Date	January 14, 2004	
		First Named Inventor	Anil Kumar et al.	
		Art Unit	4742 2873	
Sheet	5	5	Attorney Docket Number	1905A1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
P		CASTELLANO, Joseph A. "Surface Anchoring of Liquid Crystal Molecules on Various Substrates," <u>Mol. Cryst. Liq. Cryst.</u> , Vol. 94, pp. 33-41 (1983).	
H		HUANG, D.D. et al. "Effect of Aligning Layer Thickness on Photo-Aligned Ferroelectric Liquid Crystal Displays," <u>Proceedings of the 6th Chinese Optoelectronics Symposium</u> , Hong Kong China, IEEE (New York), pp. 231-234 (2003).	
H		CHIGRINOV, V.G. and KOZENKOV, V.M., "New Results on Liquid Crystal Alignment by Photopolymerization," <u>Proceedings of the SPIE- The International Society for Optical Engineering</u> , SPIE Vol. 2409 pp. 130-140 (1995).	

Examiner Signature	<i>Joseph A. Castellano</i>	Date Considered	7/5/05
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		Application Number	10/757,267		
		Filing Date	January 14, 2004		
		First Named Inventor	Kumar et al.		
		Art Unit	2873		
		Examiner Name	Not Assigned Stultz		
Sheet	1	of	4	Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					Class/Div
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
[Handwritten initials]		3,361,706	01-02-1968	Meriwether et al.	252/586
		4,166,043	08-28-1979	Uhlmann et al.	252/600
		4,367,170	01-04-1983	Uhlmann et al.	252/586
		4,279,474	07-21-1981	Belgorod	349/13
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		4,756,973	07-12-1988	Sakagami et al.	478/412
		4,873,026	10-10-1989	Behre et al.	562/22
		4,873,029	10-10-1989	Blum	264/11.32
		4,931,220	06-05-1990	Haynes et al.	252/586
		5,130,353	07-14-1992	Fischer et al.	524/43
		5,185,390	02-09-1993	Fischer et al.	524/43
		5,389,698	2-14-1995	Chigrinov et al.	322/2
		5,602,661	2-11-1997	Schadt et al.	344/124
		5,645,767	07-08-1997	Van Gemert	252/586
		5,658,501	08-19-1997	Kumar et al.	252/586
	5,698,141	12-16-1997	Kumar	252/586	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
JP US US US US US US	1	WO 89/11674	11-30-1989	Plessey Overseas Limited		
		WO 00/77559	12-21-2000	PPG Industries, Inc.		
		WO 01/02449	01-11-2001	PPG Industries, Inc.		
		WO 01/55960	8-2-2001	Rolic AG		
		WO 02/29489	4-11-2002	Alphamicon, Inc.		
		WO 02/058921	8-1-2002	Alcat, Incorporated		
		WO 03/019270	3-6-2003	Kim, Su-Jin		
		EP 1 203 967 A1	5-8-2002	Rolic AG		

Examiner Signature	<i>Jean</i>	Date Considered	7/5/05
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210	1	5,723,072	03-03-1998	Kumar	252/586
		5,746,949	5-5-1998	Shen et al.	252/585
		5,962,617	10-05-1999	Slagel	528/61
		6,022,497	02-08-2000	Kumar	252/586
		6,025,026	02-15-2000	Smith et al.	427/316
		6,060,001	05-09-2000	Welch et al.	252/586
		6,113,814	09-05-2000	Gemert et al.	252/586
		6,150,430	11-21-2000	Walters et al.	522/789
		6,153,126	11-28-2000	Kumar	252/586
		6,187,444	02-13-2001	Bowles, III et al.	428/423.18
		6,239,778	5-29-2001	Palffy-Muhoray et al.	345/87
		6,245,399	6-12-2001	Sahouani et al.	428/1.31
		6,268,055	07-31-2001	Walters et al.	428/413
		6,338,808	1-15-2002	Kawata et al.	252/299.4
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6,433,043	08-13-2002	Misura et al.	523/456		

[illegible]

Examiner Signature		Date Considered	7/5/05
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				Filing Date	January 14, 2004
				First Named Inventor	Kumar et al.
				Art Unit	2823
				Examiner Name	Not Assigned SW 112
				Attorney Docket Number	1905A1
Sheet	3	of	4		

[illegible][illegible]

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